
MINITURBINEL TURBINEL



(CONTROLBOX only for single-phase version)

GENERAL DATA

Applications

Submerged single-impeller peripheral pump for wells and boreholes with a diameter of 4" or greater, capable of developing high heads with limited power. Suitable for lifting and distributing water in domestic installations, small-scale agriculture, pressurization of autoclave units and hobby applications.

Constructional features of the pump

Brass pump body, pressure disc and impeller.

Cast iron motor support.

Stainless steel rotor shaft extension and strainer.

Constructional features of the motor

Submersible two-pole induction motor, made completely of stainless steel, dry and cooled from the outside by the pumped liquid.

Squirrel cage rotor mounted on oversized greased sealed-for-life ball bearings to ensure reliability and long life.

Double mechanical seal in an oil bath with special protection against sand.

Capacitor permanently in circuit and overload protection with manual reset located in the control box supplied as standard equipment with the single-phase version.

The user is responsible for protection in the three-phase version.

Motor protection: IP68

Insulation class: F

Standard voltage:	single-phase	220-240 V/50 Hz
	three-phase	400 V (λ)/50 Hz

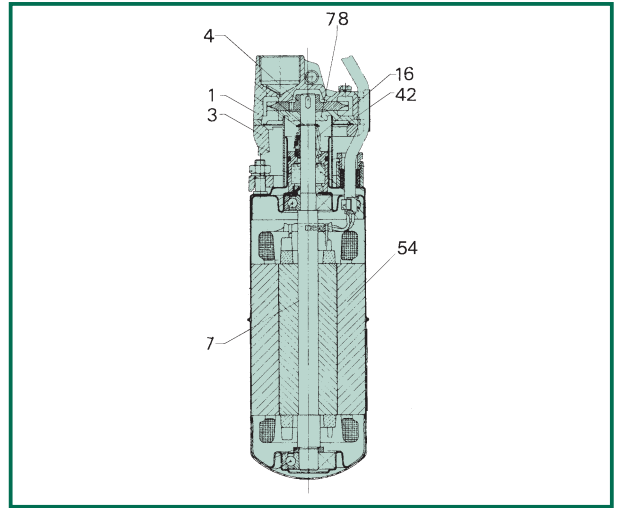
Standard power cable length 15 metres.

All the pumps are supplied with a nylon rope 15 metres long.

TECHNICAL DATA

N.	PARTS*	MATERIALS
1	PUMP BODY	BRASS PCuZn40Pb2 UNI 5705
3	SUPPORT	CAST IRON 200 UNI ISO 185
4	IMPELLER	BRASS PCuZn40Pb2 UNI 5705
7	SHAFT WITH ROTOR	STAINLESS STEEL AISI 416 X12 Cr5 13 UNI 6900/71
16	MECHANICAL SEAL	CARBON/CERAMIC
42	STRAINER	STAINLESS STEEL AISI 304 X5 CrNi 1810 UNI 6900/71
54	MOTOR	STAINLESS STEEL AISI 304 X5 CrNi 1810 UNI 6900/71
78	PRESSURE DISC	BRASS PCuZn40Pb2 UNI 5705

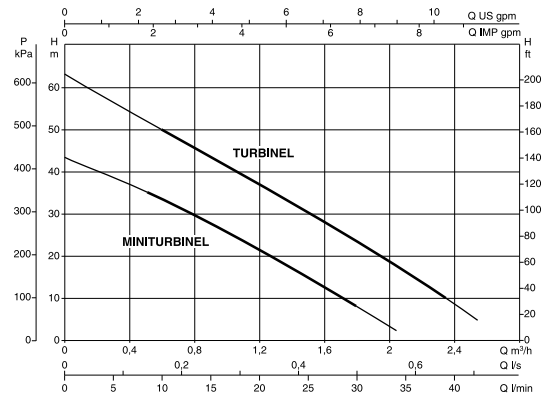
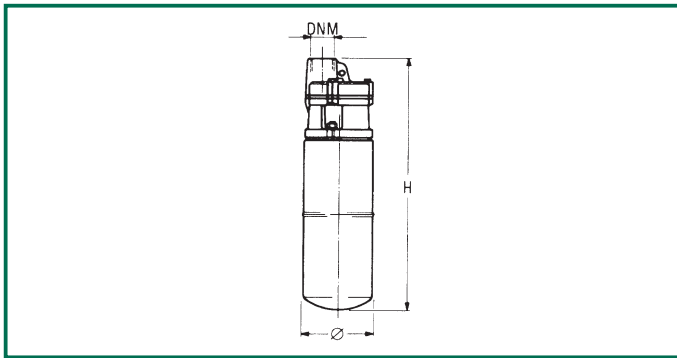
* In contact with the liquid



- Operating range: from 0,6 to 2,4 m³/h with head up to 63 metres
- Liquid quality requirements: clean, free from solids or abrasive substances, non viscous, non aggressive, non crystallized, chemically neutral, close to the characteristics of water.
- Liquid temperature range: from 0°C to +40°C
- Maximum immersion: 10 m
- Installation. in wells and boreholes with a diameter of 4" or greater, tanks and cisterns, in a vertical position
- Special executions on request: other voltages and/or frequencies
- Accessories: see page 94-95
- Power cable section: see table on page 95

The performance curves are based on the kinematic viscosity values = 1 mm²/s and density equal to 1000 kg/m³. Curve tolerance according to ISO 9906.

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MODEL	Ø	H	DNM	L/A	PACKING DIMENSIONS			VOLUME m ³	WEIGHT Kg
					L/B	H			
MINITURBINEL	95	290	1" G	440	206	245	0,022	10	
TURBINEL	95	340	1" G	440	206	245	0,022	14,8	

MODEL	ELECTRICAL DATA							HYDRAULIC DATA (n ≈ 2800 1/min)										
	VOLTAGE 50 Hz	P1 MAX kW	P2 NOMINAL		In A	CAPACITOR		Q										
			kW	HP		µF	Vc	m ³ /h	l/min	0	0,6	1,2	1,5	1,8	2,1	2,4		
MINITURBINEL M	1x220-240 V ~	0,66	0,37	0,5	3,3	14	450	H (m)	43	33,5	21,5	15,5	8,5					
TURBINEL M	1x220-240 V ~	1,16	0,75	1	5,7	16	450		63	50	37	29	23	17	8			
TURBINEL T	3x400 V ~	1,1	0,75	1	2,1	-	-											

* The data on the protections are on page 94-95